

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 July 2005 (14.07.2005)

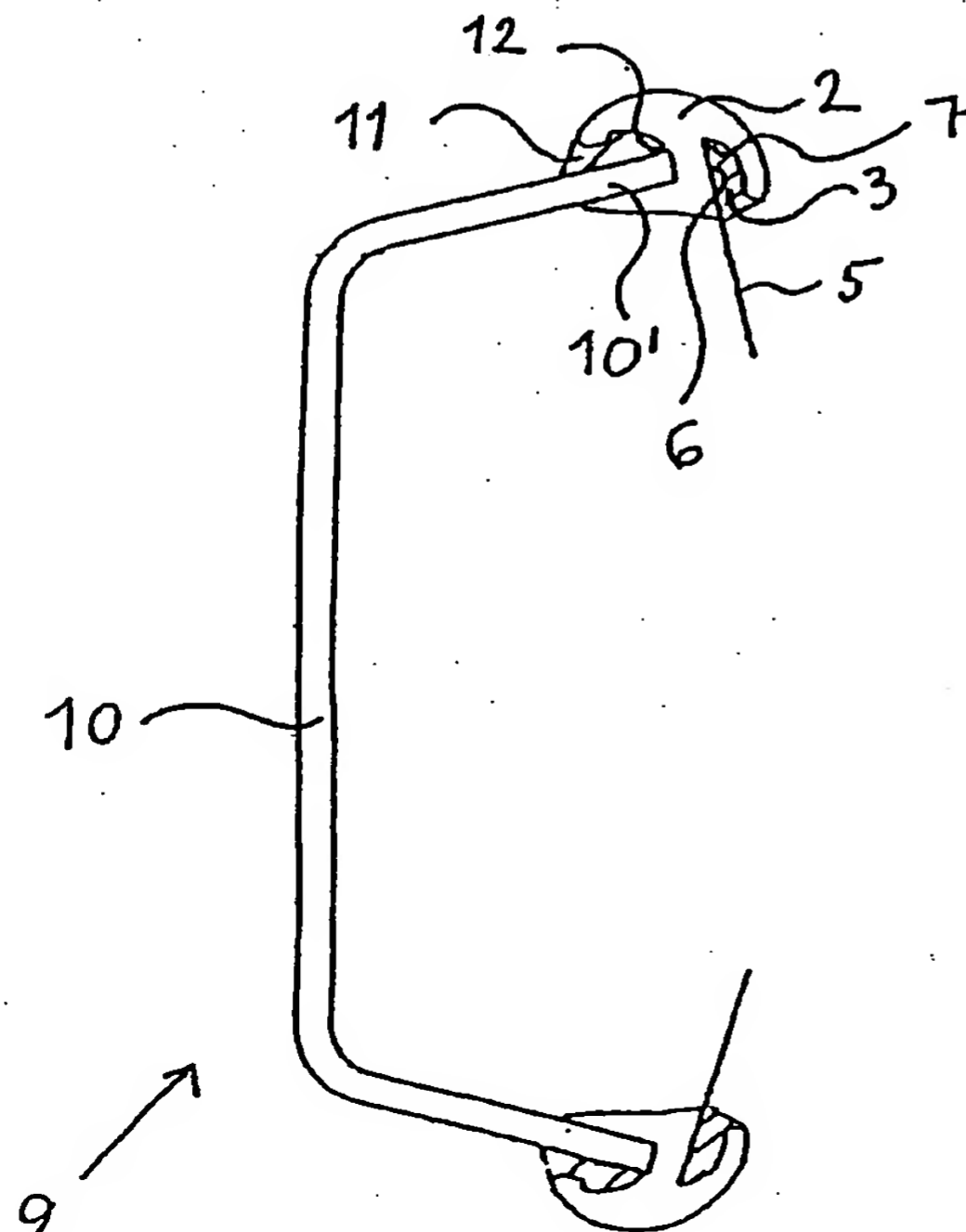
PCT

(10) International Publication Number
WO 2005/063487 A1

- (51) International Patent Classification⁷: B41F 9/10, 31/02, 31/04
- (21) International Application Number: PCT/SE2004/001933
- (22) International Filing Date: 20 December 2004 (20.12.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 0303603-5 30 December 2003 (30.12.2003) SE
- (71) Applicant (for all designated States except US): AKE-BOOSE INTERNATIONAL AB [SE/SE]; Dalénum, P.O. Box 36, S-181 70 LIDINGÖ (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BÖÖSE, Åke [SE/SE]; Laxvägen 3, S-181 30 LIDINGÖ (SE). IRLÉN, Fredrik [SE/SE]; Älta Mossväg 12, S-138 37 ÄLTA (SE).
- (74) Agent: ALBIHNS STOCKHOLM AB; Linnégatan 2, P.O. Box 5581, S-114 85 STOCKHOLM (SE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: DOCTOR BLADE SYSTEM, DOCTOR BLADE CLAMPING DEVICE, CHAMBERED DOCTOR BLADE SYSTEM, PRINTING UNIT, METHOD FOR CLAMPING A DOCTOR BLADE, AND METHOD FOR ATTACHING A CLAMPING PORTION OF A CHAMBERED DOCTOR BLADE



(57) Abstract: A doctor blade system for printing units is disclosed, which is arranged for applying ink, lacquer, adhesive or the like to a rotatable cylinder in a printing unit, comprising an elongate frame, having a supporting portion and at least one clamping portion, which frame is arranged parallel to and outside the cylinder and on which are mounted, on each clamping portion of the frame, an elongate doctor blade also disposed parallel to the cylinder and arranged in operative position, to be wipingly applied against the cylinder, each clamping portion comprising an elongate slit into which a doctor blade is intended to be partly introduced and fixed by clamping means, wherein the clamping means (3) is resiliently arranged for providing a damping action for the doctor blade (5). The invention also relates to a doctor blade clamping device, a chambered doctor blade system, a printing unit, a method for clamping a doctor blade, and a method for attaching a clamping portion of a chambered doctor blade frame.

WO 2005/063487 A1



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.